SEP 2 5 2006

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Frank C. Eisenschenk, Ph.D., Patent Attorney

INFORMATION DISCLOSURE

10563045 - GAU:

STATEMENT

Examining Group 1646

Patent Application

Docket No. INN-133

Serial No. 10/563,045

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit

:

Applicants

Alessandro Moretta, Mariella Della Chiesa

Serial No.

10/563,045

Filed

10/000,0

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December 30, 2005

Conf. No.

6062

1646

For

PAN-KIR2DL NK-Receptor Antibodies and Their Use in Diagnostik and

Therapy

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

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The patent application referred to above was filed in the U.S. Patent Office as a national application under 35 U.S.C. § 371. Applicants have been notified that a copy of the International Search Report has been made available in the national stage file as indicated on the Notice of Acceptance of the Application Under 35 USC 371 (Form PCT/DO/EO/903). The Notice does not indicate whether copies of the references cited in the International Search Report were received by the Patent Office. Therefore, copies of the references cited in the International Search Report are enclosed for the Examiner's convenience. However, Applicants have not submitted copies of the U.S. patents cited on attached Form PTO/SB/08 pursuant to 37 C.F.R. 1.98(a)(2)(ii). In accordance with 37 C.F.R. § 1.56, Applicants hereby request that the references cited in the International Search

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Docket No. INN-133 Serial No. 10/563,045

Report and listed on the attached form PTO/SB/08 be made of record and considered in the examination of the subject application.

Applicants have also listed on form PTO/SB/08 numerous references which have not been cited in the International Search Report. Copies of these documents are enclosed with this Information Disclosure Statement. Applicants respectfully request that these references be made of record and considered in the examination of the subject application.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,

Frank C. Eisenschenk, Ph.D.

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Attachments: Form PTO/SB/08; copies of cited references.



PTO/SB/08A (08-03)
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Substitute for form 1449A/PTO					Complete if Known		
				IDE	Application Number	10/563,045	
		TION DISCL			Filing Date	December 30, 2005	
,	SIAIEME	ENT BY APPI	_ _/	ANI	First Named Inventor	Alessandro Moretta	
	(u:	se as many sheets a	s ned	essary)	Art Unit	1646	
					Examiner Name		
	Sheet	1	of	3	Attorney Docket Number	INN-133	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	U1	US-6,524,583	02-25-2003	THORPE et al.	All	
	U2	US-5,650,491	07-22-1997	REED et al.	All	
-	U3	US-5,539,094	07-23-1996	REED et al.	All	
	U4	US-5,660,827	08-26-1997	THORPE et al.	All	
	U5	US-4,816,567	03-28-1989	CABILLY et al.	All	
	U6	US-5,583,034	12-10-1996	GREEN et al.	All	
	U7	US-				
	U8	US-				
	Ų9	US-				

	FOREIGN PATENT DOCUMENTS						
Examiner	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
Initials*		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				T ⁶	
	F1	WO 98/16551 A2	04-23-1998	GENENTECH, INC.	All		
	F2						
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	F4						
	F5						
	F6						
	F7						

Examiner	Date	
Signature	 Considered	j

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

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Complete if Known Substitute for form 1449B/PTO 10/563,045 Application Number INFORMATION DISCLOSURE December 30, 2005 **Filing Date** STATEMENT BY APPLICANT Alessandro Moretta First Named Inventor 1646 **Group Art Unit** (use as many sheets as necessary) **Examiner Name Attorney Docket Number INN-133** of 3 Sheet

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	R1	BARTEN, R. et al. "Divergent and convergent evolution of NK-cell receptors", TRENDS in Immunology, January 2001, pp. 52-57, Vol. 22, No. 1.	
	R2	BIASSONI, R. et al. "Human CD3 CD16 [†] Natural Killer Cells Express the hGATA-3 T Cell Transcription Factor and an Unrearranged 2.3-kb TcR δ Transcript", <i>Eur. J. Immunol.</i> , 1993, pp. 1083-1087, Vol. 23.	
·	R3	BOYINGTON, J. C. et al. "Crystal Structure of an NK Cell Immunoglobulin-like Receptor in Complex with its Class I MHC Ligand", <i>Nature</i> , June 1, 2000, pp. 537-543, Vol. 405.	
	R4	FAN, Q. R. et al. "Crystal Structure of the Human Natural Killer Cell Inhibitory Receptor KIR2DL1-HLA-Cw4 Complex", <i>Nature Immunology</i> , May 2001, pp. 452-460, Vol. 2, No. 5.	
	R5	FARAG, S. S. et al. "Natural Killer Cell Receptors: New Biology and Insights into the Graft-Versus-Leukemia Effect", BLOOD, September 15, 2002, pp. 1935-1947, Vol. 100, No. 6.	
	R6	GAUTHIER, L. et al. "μ-Surrogate Light Chain Physicochemical Interactions of the Human PreB Cell Receptor: Implications for V _H Repertoire Selection and Cell Signaling at the PreB Cell Stage", <i>The Journal of Immunology</i> , 1999, pp. 41-50, Vol. 162.	
	R7	KOH, C. Y. et al. "NK Inhibitory-Receptor Blockade for Purging of Leukemia: Effects on Hematopoietic Reconstitution", <i>Biology of Blood and Marrow Transplantation</i> , 2002, pp. 17-25, Vol. 8.	
	R8	MAENAKA, K. et al. "Crystal Structure of the Human p58 Killer Cell Inhibitory Receptor (KIR2DL3) Specific for HLA-Cw3-Related MHC Class I", Structure, April 1999, pp. 391-398, Vol. 7, No. 4.	
	R9	MORETTA, A. et al. "Activating Receptors and Coreceptors Involved in Human Natural Killer Cell-Mediated Cytolysis", Annu. Rev. Immunol., 2001, pp. 197-223 and Table of Contents, Vol. 19.	
	R10	MORETTA, A. et al. "Identification of Four Subsets of Human CD3 CD16" Natural Killer (NK) Cells by the Expression of Clonally Distributed Functional Surface Molecules: Correlation between Subset Assignment of NK Clones and Ability to Mediate Specific Alloantigen Recognition", J. Exp. Med., December 1990, pp. 1589-1598, Vol. 172.	
	R11	MORETTA, A. et al. "A Novel Surface Antigen Expressed by a Subset of Human CD3 CD16 ⁺ Natural Killer Cells", <i>The Journal of Experimental Medicine</i> , March 1990, pp. 695-714, Vol. 171.	
	R12	MORETTA, A. et al. "P58 Molecules as Putative Receptors for Major Histocompatibility Complex (MHC) Class I Molecules in Human Natural Killer (NK) Cells. Anti-p58 Antibodies Reconstitute Lysis of MHC Class I-protected Cells in NK Clones Displaying Different Specificities", J. Exp. Med., August 1993, pp. 597-604, Vol. 178.	

Examiner	Date
Signature	Considered

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Complete if Known Substitute for form 1449B/PTO **Application Number** 10/563,045 INFORMATION DISCLOSURE **Filing Date** December 30, 2005 STATEMENT BY APPLICANT **First Named Inventor** Alessandro Moretta 1646 **Group Art Unit** (use as many sheets as necessary) /Marianne DiBrino/ **Examiner Name** Sheet of 3 **Attorney Docket Number INN-133** 3

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
	R13	MORETTA, A. et al. "Receptors for HLA Class-I Molecules in Human Natural Killer Cells", Annu. Rev. Immunol., 1996, pp. 619-648, Vol. 14.					
	R14	PENDE, D. et al. "Identification and Molecular Characterization of NKp30, a Novel Triggering Receptor Involved in Natural Cytotoxicity Mediated by Human Natural Killer Cells", J. Exp. Med., November 15, 1999, pp. 1505-1516, Vol. 190, No. 10.					
	R15	RUGGERI, L. et al. "Effectiveness of Donor Natural Killer Cell Alloreactivity in Mismatched Hematopoietic Transplants", Science, March 15, 2002, pp 2097-2100, Vol. 295.					
	R16	SAUNAL, H. et al. "Mapping of Viral Conformational Epitopes Using Biosensor Measurements", Journal of Immunological Methods, 1995, pp. 33-41, Vol. 183.					
	R17	SAULQUIN, X. et al. "Crystal Structure of the Human Natural Killer Cell Activating Receptor KIR2DS2 (CD158j)", J. Exp. Med., April 7, 2003, pp. 933-938, Vol. 197, No. 7.					
	R18	SHIN, JS. et al. "Monoclonal Antibodies with Various Reactivity to p58 Killer Inhibitory Receptors", Hybridoma, 1999, pp. 521-527, Vol. 18, No. 6					
	R19	SPAGGIARI, G. M. et al. "Soluble HLA Class I Induces NK Cell Apoptosis Upon the Engagement of Killer-Activating HLA Class I Receptors through FasL-Fas Interaction", BLOOD, December 1, 2002, pp. 4098-4107, Vol. 100, No. 12.					
	R20	WAGTMANN, N. et al. "Killer Cell Inhibitory Receptors Specific for HLA-C and HLA-B Identified by Direct Binding and by Functional Transfer", Immunity, December 1995, pp. 801-809, Vol. 3.					
	R21	WAGTMANN, N. <i>et al.</i> "Molecular Clones of the p58 NK Cell Receptor Reveal Immunoglobulin-Related Molecules with Diversity in Both the Extra- and Intracellular Domains", <i>Immunity</i> , May 1995, pp. 439-449, Vol. 2.					
	R22	WARREN, H.S. <i>et al.</i> "Functional analysis of CD158b monoclonal antibodies recognizing the killer Iglike receptors KIR2DS2, KIR2DL2 and KIR2DL3", <i>Tissue Antigens</i> , 2000, pp. 80-81, Vol. 55, No. Supplement 15, XP009040899 (abstract only).					
	R23						
	R24						

Examiner	Marianna DiPrina/	Date	
 Signature 	/Marianne DiBrino/	Considered	06/15/200
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